

## DMS - 8105

### PAINT, ONE COAT OVERCOAT

**EFFECTIVE DATE: OCTOBER 2014**

**8105.1. Description.** This Specification governs and defines repair paint for use on existing painted steel. Material may be single-component or multicomponent and must be formulated specifically for overcoating of poorly prepared surfaces, as defined in SSPC SP-2.

**8105.2. Units of Measurements.** The values given in parentheses (if provided) are not standard and may not be exact mathematical conversions. Use each system of units separately. Combining values from the two systems may result in nonconformance with the standard.

**8105.3. Material Producer List.** The Materials and Pavements Section of the Construction Division (CST/M&P) maintains the Material Producer List (MPL) of all materials conforming to the requirements of this Specification. Materials appearing on the MPL, entitled "[Paint, One Coat Overcoat](#)," require sampling and testing for product verification before use.

**8105.4. Bidders' and Suppliers' Requirements.** The Department will only purchase or allow on projects those products listed by manufacturer and product code or designation shown on the MPL.

**8105.5. Pre-Qualification Procedure.**

**A. Pre-Qualification Request.** Submit a request for evaluation under DMS-8105 to the Texas Department of Transportation, CST/M&P (CP-51), 9500 North Lake Creek Parkway, Austin, TX 78717.

Include the following information:

- producer name;
- physical and mailing addresses;
- contact person, telephone number, and email address;
- safety data sheet (SDS) that complies with OSHA Hazard Communication Standard 29 CFR 1910.1200;
- product data sheet;
- application data sheet;
- a 1 qt. sample of the material; and
- research or test reports showing product's suitability as an overcoat paint.

**B. Evaluation.** The Department will notify the producer upon completion of material evaluation.

- 1. Qualification.** The Department will list materials meeting the requirements of this Specification on the MPL.

- 2. Failure.** Producers not qualified under this Specification may not furnish materials for Department projects.

Producers failing to qualify may submit a request for re-evaluation after 6 mo. have elapsed from the date of the original request. CST/M&P may modify this time limit at its discretion. In the request for re-evaluation, the producer must document the cause of the issue and corrective action taken.

The Department normally bears the costs of sampling and testing; however, the producer will bear the costs associated with materials failing to conform to the requirements of this Specification. The Director of CST/M&P will assess this cost at the time of re-evaluation, and amounts due will be billed to the producer.

- C. Formulation Changes.** Report any changes in formulation to CST/M&P. The Department will evaluate one reformulation per year.

The Department reserves the right to conduct any tests deemed necessary to identify a qualified material and to determine if there has been a change in formulation. Detected changes not reported to the Department may be grounds for removal from the MPL.

Except for transition periods not to exceed 3 mo., a supplier may not supply more than one formula per type of coating at the same time.

- D. Periodic Evaluation.** The Department reserves the right to perform random audits of test reports and to conduct random sampling and testing to evaluate the performance of materials. In case of variance, the Department's tests will govern. CST/M&P will select random samples from materials submitted to the Department on Contracts or direct State purchase orders. Failure to comply with the requirements of this Specification may be cause for removal from the MPL.

- E. Disqualification.** Causes for disqualification may include, but are not limited to:

- falsification of documentation,
- failure to report formulation changes,
- failure to meet the requirements of this Specification as a result of periodic evaluation, or
- producer has unpaid charges for failing samples.

CST/M&P will remove disqualified producers from the MPL and will not allow submission of material for re-qualification for 6 mo., at the discretion of the Department.

- F. Re-Qualification.** Once the disqualification period established by CST/M&P has elapsed, producers disqualified and removed from the MPL may begin the re-qualification process by submitting a request in accordance with Section 8105.5.A, including additional documentation identifying the cause of the problem and corrective action taken. The re-qualification process will then follow all subsequent Sections of Article 8105.5.

The disqualified producer will bear the costs associated with re-qualification. The Director of CST/M&P will assess this cost at the time of re-evaluation, and amounts due will be billed to the producer.

**8105.6. Material Requirements.**

- A. General Requirements.** Material may be single-component or multicomponent and must be formulated specifically for overcoating of poorly prepared surfaces, as defined in SSPC SP-2.
- B. Outdoor Exposure.** Follow the surface preparation, paint application, and exposure requirements of Tex-817-B. Meet the following after exposure:
- rust grade 7 or higher when evaluated in accordance with ASTM D 610 and
  - blister density of Few or less and no more than a single blister No.2 or larger when evaluated in accordance with ASTM D 714.
- C. Consistency.** The applied coating must form a firm, continuous, uniform film free of pinholes, bubbles, cracks, peeling, flaking, or other film defects, and must exhibit satisfactory adhesion (rating 8 or higher) when evaluated in accordance with ASTM D 6677.
- Coating must have no skins, agglomerates, or other undesirable particles when determined in accordance with Tex-805-B.
- The consistency of the coating must match that of the evaluation sample when measured with a Krebs-modified Stormer Viscometer ( $\pm 5$  KUs) at 77°F in accordance with ASTM D 562.
- D. Density.** The density of each component must not vary by more than  $\pm 0.1$  lb. per gal. from the density of the evaluation sample when tested at 77°F in accordance with ASTM D 1475. For two-component systems, this applies to both the base and the cure components.
- E. Color.** The color must match Federal Standard 595C, color number 35630, unless otherwise shown on the plans. When the plans show another color, the color must match the color standard supplied by the Engineer
- F. Infrared Spectrum.** The infrared spectrum must match that of the evaluation sample when taken in accordance with Tex-888-B. For two-component systems, this applies to both the base and the cure components.
- G. Percent Solids.** The percent solids must be within 2.0 percentage points of that established on the evaluation sample when tested in accordance with ASTM D 2369. For two-component systems, this applies to both the base and the cure components.

**8105.7. Containers and Marking.**

- A. Packaging.** Ship materials in suitable strong, well-sealed containers that meet federal requirements and that are sufficiently sturdy to withstand normal shipping and handling.
- B. Labeling.** Label the sides of the containers and cases with a durable label legibly printed with the following:
- manufacturer name;

- product designation, including component part (if applicable);
- batch number;
- date of manufacture; and
- net volume or weight.

If palletized, boxed, or if other group packaging is used, maintain a label that is easily readable on the outside packaging.